



İSTANBUL AYDIN UNIVERSITY

VOCATIONAL SCHOOL OF HEALTH SERVICES E-BULLETIN



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VOCATIONAL SCHOOL OF HEALTH SERVICES

T.R.

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VOCATIONAL SCHOOL OF HEALTH SERVICES

PROGRAMS

- **ORAL AND DENTAL HEALTH**
- **OPERATING ROOM SERVICES**
- **ANESTHESIA**
- **DENTAL PROSTHESIS TECHNOLOGY**
- **DIALYSIS**
- **PHARMACY SERVICES**
- **ELECTRONEUROPHYSIOLOGY**
- **PHYSIOTHERAPY**
- **FIRST AND EMERGENCY AID**
- **AUDIOMETRY**
- **OPTICIANS**
- **ORTHOPEDIC PROSTHETICS AND ORTHOTICS**
- **PATHOLOGY LABORATORY TECHNIQUES**
- **PERFUSION TECHNIQUES**
- **RADIOTHERAPY**
- **SOCIAL SERVICES**
- **MEDICAL DOCUMENTATION AND SECRETARIAL**
- **MEDICAL IMAGING TECHNIQUES**
- **MEDICAL LABORATORY TECHNIQUES**



VOCATIONAL SCHOOL OF HEALTH SERVICES

The MEDEK Accreditation Journey of Five New Programs at SHMYO Has Begun

Following the achievement of full MEDEK accreditation for four programs in 2025, the School of Health Services Vocational Higher Education (SHMYO) has submitted applications for MEDEK accreditation for five additional programs as of January 2026. Within this scope, a meeting was held with the program chairs and lecturers of the Physiotherapy, Medical Imaging Techniques, Medical Documentation and Secretarial, Pharmacy Services, and Social Services programs to discuss the accreditation process. At the meeting held on January 6, 2026, the Principal of SHMYO, Prof. Dr. Ahmet İlvan, delivered an opening speech. This was followed by a training session on the MEDEK accreditation process conducted by the Chair of the Accreditation Commission, Assist. Prof. Dr. Narin Abdullah.





OPERATING ROOM SERVICES PROGRAM

Our Program Has Received Full Accreditation for Four Years

Our Operating Room Services Program has been granted full accreditation for a period of four years following a comprehensive external evaluation conducted by the Vocational Education Evaluation and Accreditation Association (MEDEK). At the ceremony held on January 12, 2026, the MEDEK Accreditation Certificate was presented to the Program Chair, Lect. Zeliha Okur, with the participation of Prof. Dr. Mehmet Sarıbyık, Chair of the MEDEK Board of Directors; Mehmet Vural Koç, Member of the MEDEK Board of Directors; Prof. Dr. İbrahim Hakkı Aydın, Rector of our University; and Prof. Dr. Ahmet İlvan, Principal of the School of Health Services Vocational Higher Education. This accreditation certifies that our program's educational and training processes, program learning outcomes, assessment and evaluation practices, and continuous improvement mechanisms comply with quality assurance standards. In line with our goal of training qualified healthcare professionals in the field of operating room services, we respectfully announce to the public that we will continue to pursue an education approach grounded in a strong culture of quality.





MEDICAL LABORATORY TECHNIQUES PROGRAM

Our Program Has Received Full Accreditation for Four Years

Our program has been granted full accreditation for a period of four years by the Vocational Education Evaluation and Accreditation Association (MEDEK).

At the ceremony held on January 12, 2026, the MEDEK Accreditation Certificate was presented to the Program Chair, Lect. Dr. Büşra Kaynar, by Prof. Dr. Mehmet Sarıbıyık, Chair of the MEDEK Board of Directors and Rector of Sakarya University of Applied Sciences; Mehmet Vural Koç, Member of the MEDEK Board of Directors; Prof. Dr. İbrahim Hakkı Aydın, Rector of our University; and Prof. Dr. Ahmet İlvan, Principal of the School of Health Services Vocational Higher Education. We extend our sincere thanks to all our academic staff and students who contributed to this proud achievement, and we respectfully announce to the public that we will continue to advance with determination in line with our quality-oriented education approach.





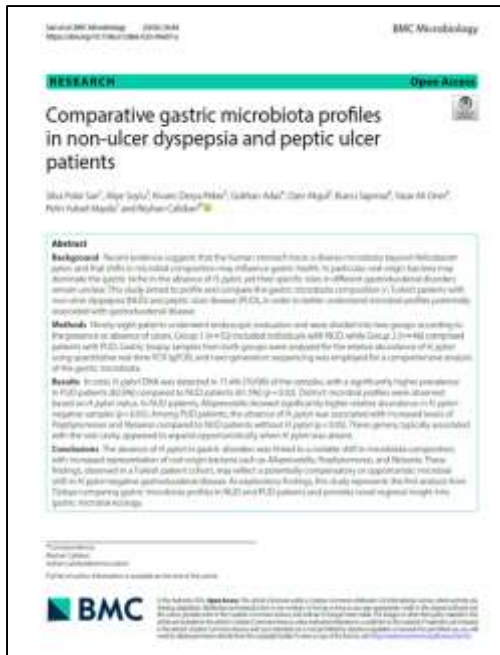
MEDICAL LABORATORY TECHNIQUES PROGRAM

Web of Science Q2 Publication Achievement

One of our university’s academic staff members, Assist. Prof. Dr. Silva Polat Sarı, has been listed as the first author of a study published in BMC Microbiology, a prestigious international journal indexed in the Web of Science (WoS) Q2 category.

The study entitled “Comparative gastric microbiota profiles in non-ulcer dyspepsia and peptic ulcer patients” is the first research conducted in Türkiye to compare gastric microbiota profiles in patients with non-ulcer dyspepsia and peptic ulcer disease.

We congratulate our faculty member on this significant academic achievement and wish her continued success in her scientific endeavors.





MEDICAL LABORATORY TECHNIQUES PROGRAM

Article

One of our university’s academic staff members, Assist. Prof. Dr. Negar Taghavi Pourianazar, has published her study entitled “CircRNAs in Immuno-Metabolic Reprogramming of Chordoma Cancer: Molecular Crosstalk and Therapeutic Potential” in the International Journal of Molecular Sciences.



CircRNAs in Immuno-Metabolic Reprogramming of Chordoma Cancer: Molecular Crosstalk and Therapeutic Potential
by Negar Taghavi Pourianazar

Medical Laboratory Techniques, Istanbul Aydın University, 34090 Istanbul, Turkey

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(This article belongs to the Section Molecular Crystology)

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Abstract

Slow-growing and locally invasive, chordoma is a rare malignant bone tumor, with a reported annual worldwide incidence of 0.06 per 100,000 cases. It accounts for about 3 percent of all bone tumors and about 20 percent of primary spinal tumors. The incidence rates vary between countries and races, with white/Caucasian males in the 5th or 6th decade of life having a higher prevalence. Chordoma poses significant challenges because of its high recurrence rate and resistance to several standard treatment techniques. All tumors, including chordomas, have altered energy metabolism processes that contribute to their unchecked growth and survival. The significance of non-coding RNAs, particularly circular RNAs (circRNAs), as key regulators at the intersection of cellular metabolism and immune function has been highlighted by recent discoveries. By focusing on important glycolytic enzymes in tumor cells and altering metabolic reprogramming pathways, circRNAs can influence cancer metabolic adaptability. Furthermore, we influence immune cell functions as immunological checkpoint signaling and macrophage polarization. circRNAs influence immune evasion in the tumor microenvironment. These frequently happen via regulating important pathway signals, like PDGFR/Tin2/1 and NF- κ B, or by processes like mRNA sponging, creating a tumor microenvironment that is immunosuppressive and metabolically trendy. The translational pathway of circRNA-targeted therapeutics is promoted as a developing pharmacological entity in this review, which also highlights recent information on the control of circRNA-mediated immunoregulation in chordoma and explores numerous important molecular axes. There are promising opportunities to develop novel precision treatments for chordoma by considering circRNAs as dual regulators of immunological and metabolic networks.

Keywords: immunometabolism; chordoma; circRNAs; metabolic reprogramming; immune evasion

1. Introduction

1.1. Chordoma: Characteristic and Pathophysiology

Chordoma is an uncommon malignant bone tumor that grows slowly and spreads locally. It starts from the remains of the basic notochord [1]. The sacrum/coccyx and the base of the skull are the most often affected areas, and it mostly affects the axial skeleton. Despite being regarded as low-grade tumors, chordomas have a dismal prognosis because of their high recurrence rates, potential for metastasis, and local aggressiveness [2]. The molecular foundations of chordoma have been further clarified by recent research, which has also highlighted the disease's distinct cellular features and treatment difficulties. Since these embryonic remnants are normally regulated for apoptosis, the notochordal origin of chordoma is crucial because they have the potential to change malignantly and cause tumor initiation [3]. This mesenchymal is frequently associated with particular genetic and epigenetic changes that promote unchecked growth and survival. Due to chordoma's slow growth rate, diagnosis is frequently delayed, allowing the tumor to develop to a large and invasive size before being discovered. Since total surgical excision is frequently difficult, particularly in crucial anatomical regions like the base of the skull, this local invasiveness plays a significant role in its high recurrence rates [4].

SCI-E (Q1)



FIRST AND EMERGENCY AID PROGRAM

Our Program Has Received Full Accreditation for Four Years

Our program has been granted full accreditation for a period of four years by the Vocational Education Evaluation and Accreditation Association (MEDEK).

At the ceremony held on January 12, 2026, the MEDEK Accreditation Certificate was presented to one of our program lecturers, Lect. Tuğçe Bilge Yıldırım, by Prof. Dr. Mehmet Sarıbıyık, Chair of the MEDEK Board of Directors and Rector of Sakarya University of Applied Sciences; Mehmet Vural Koç, Member of the MEDEK Board of Directors; Prof. Dr. İbrahim Hakkı Aydın, Rector of our University; and Prof. Dr. Ahmet İlvan, Principal of the School of Health Services Vocational Higher Education.





PATHOLOGY LABORATORY TECHNIQUES PROGRAM

Our Program Has Received Full Accreditation for Four Years

Our program has been awarded full accreditation for a period of four years by the Vocational Education Evaluation and Accreditation Association (MEDEK). On January 12, 2026, the MEDEK Accreditation Certificate was presented to the Program Chair, Assist. Prof. Dr. Narin Abdullah, by Prof. Dr. Mehmet Sarıbyık, Chair of the MEDEK Board of Directors and Rector of Sakarya University of Applied Sciences; Mehmet Vural Koç, Member of the MEDEK Board of Directors; Prof. Dr. İbrahim Hakkı Aydın, Rector of our University; and Prof. Dr. Ahmet İlvan, Principal of the School of Health Services Vocational Higher Education. We extend our sincere thanks to all our faculty members and students who contributed to this proud achievement. We will continue our journey with pride, guided by our commitment to quality-oriented education.





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